CUSTOMER NO.: 24498 Serial No. 10/576,665 Office Action dated: 3/31/10

Response dated: 8/19/10

PATENT PF030161

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Amendments to the Claims

Please amend the claims as follows:

- (Currently Amended) Method for detecting the orientation of an image, comprising the steps of:
  - detecting the lines in the image,
  - calculating, for each line detected, attributes characterizing each line, said attribute classifying each line as being an herizontal or vertical line,
  - classifying each line into angular intervals according to its orientation, wherein it the classifying comprises the step of
    - providing to a learning-based decision system, said attributes and the number or lines in each angular interval.
  - detecting the orientation of the image <u>by comparing said attributes with</u>

    <u>system models from the learning-based decision system.</u> according to

    the ratio of horizontal lines and vertical lines in the image.
- 2. (Currently Amended) Method according to Claim 1, wherein the step of detecting the lines in the image comprises: the substeps of
  - detecting contours, and
  - thresholding the gradient of luminance of the points belonging to each contour detected.
- 3. (Cancelled)
- 4. (Currently Amended) Method according to Claim 1, wherein it comprises further comprising a step of detecting the inclination of the lines detected, and that the attributes characterizing the lines detected of the image comprise parameters relating to the inclination of the lines.
- 5. (Cancelled)

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- 6. (Currently Amended) Device for detecting the orientation of an image, wherein it comprises comprising means for:
  - means for detecting the lines in the image,
  - <u>means for calculating</u>, for each line detected, attributes characterizing this line,
  - means for classifying each line into angular intervals according to its orientation.
  - wherein the means for classifying comprises
  - means for providing to a learning-based decision system, said attributes and the number or lines in each angular interval.
  - means for detecting the orientation of the image by comparing said attributes with system models from the learning-based decision system. as a function of the attributes of the set of lines detected.
- 7. (Cancelled)
- 8. (New) A non-transitory computer readable medium having a computer program thereon for performing a method for detecting the orientation of an image, comprising the steps of:
  - detecting lines in the image,
  - calculating, for each line detected, attributes characterizing each line,
  - classifying each line into angular intervals according to its orientation, wherein the classifying comprises the steps of:
    - providing to a learning-based decision system, said attributes and the number or lines in each angular interval, and
    - detecting the orientation of the image by comparing said attributes with system models from the learning-based decision system.